



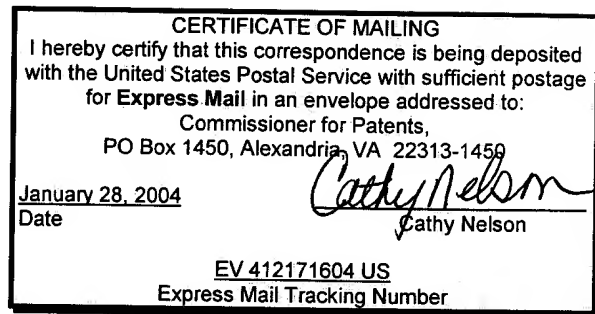
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1641

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/831,123 Confirmation No. 8722
Applicant : Kinkade et al.
Filed : August 13, 2001
TC/A.U. : 1641
Examiner : Cook, Lisa V.
For : BIOMARKERS FOR OXIDATIVE STRESS
Docket No. : 68-97
Customer No. : 23713

Commissioner for Patents
OFFICIAL DRAFTSPERSON
P.O. Box 1450
Alexandria, VA 22313-1450



LETTER TO OFFICIAL DRAFTSPERSON

Sir,

Included herewith are Formal Drawings for the above-referenced case, which include Figures 1 through 16 on 17 pages.

It is believed no fee is due with this submission however if this is incorrect, please deduct the appropriate fee and any extensions of time necessary from deposit account 07-1969.

Respectfully submitted,

FEB 05 2004

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Attorney docket No. 68-97
can: January 28, 2004



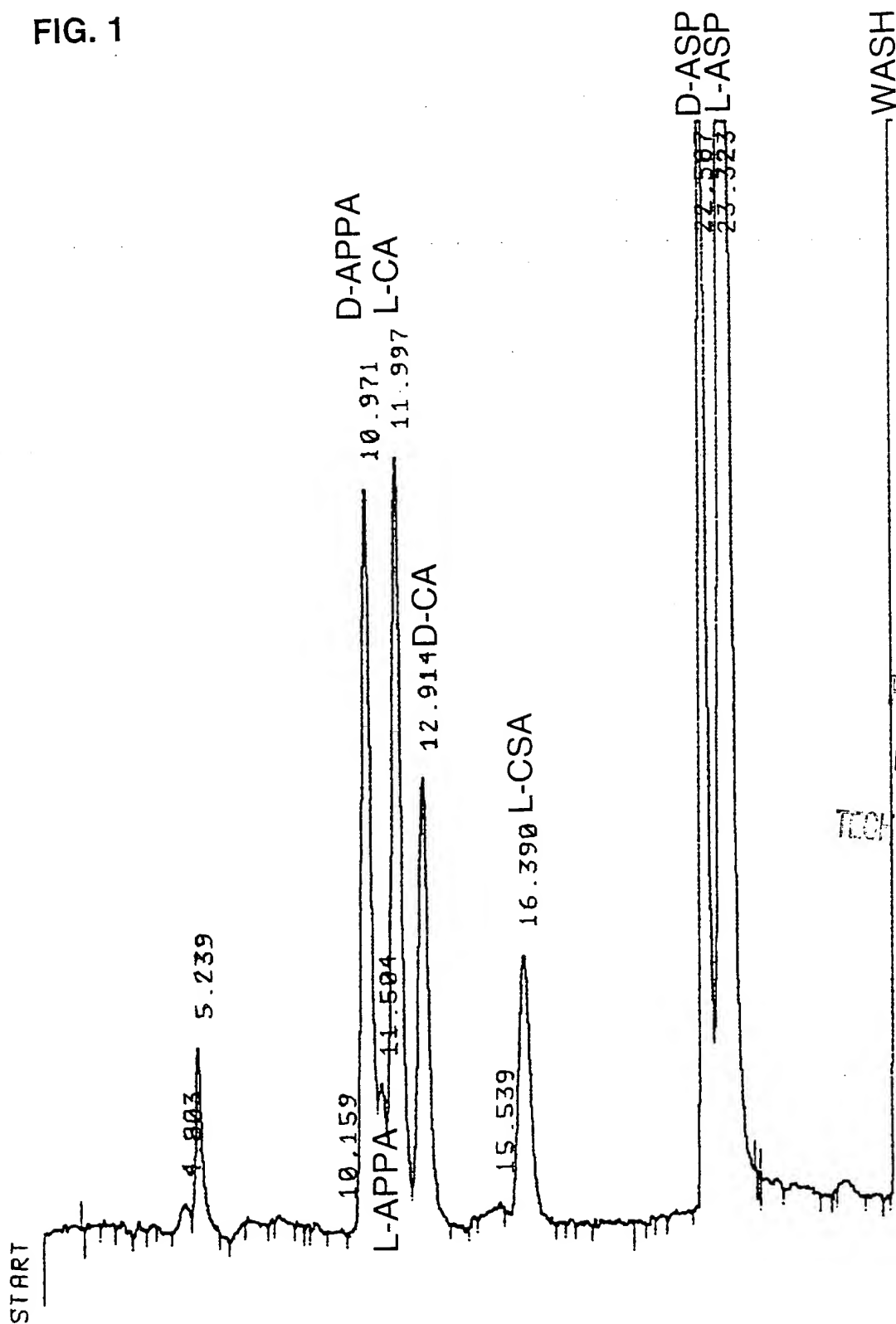
Biomarkers for Oxidative Stress

Inventors: Kinkade et al.

Atty Docket: 68-97

USSN: 09/831,123 Filed: 8/13/01

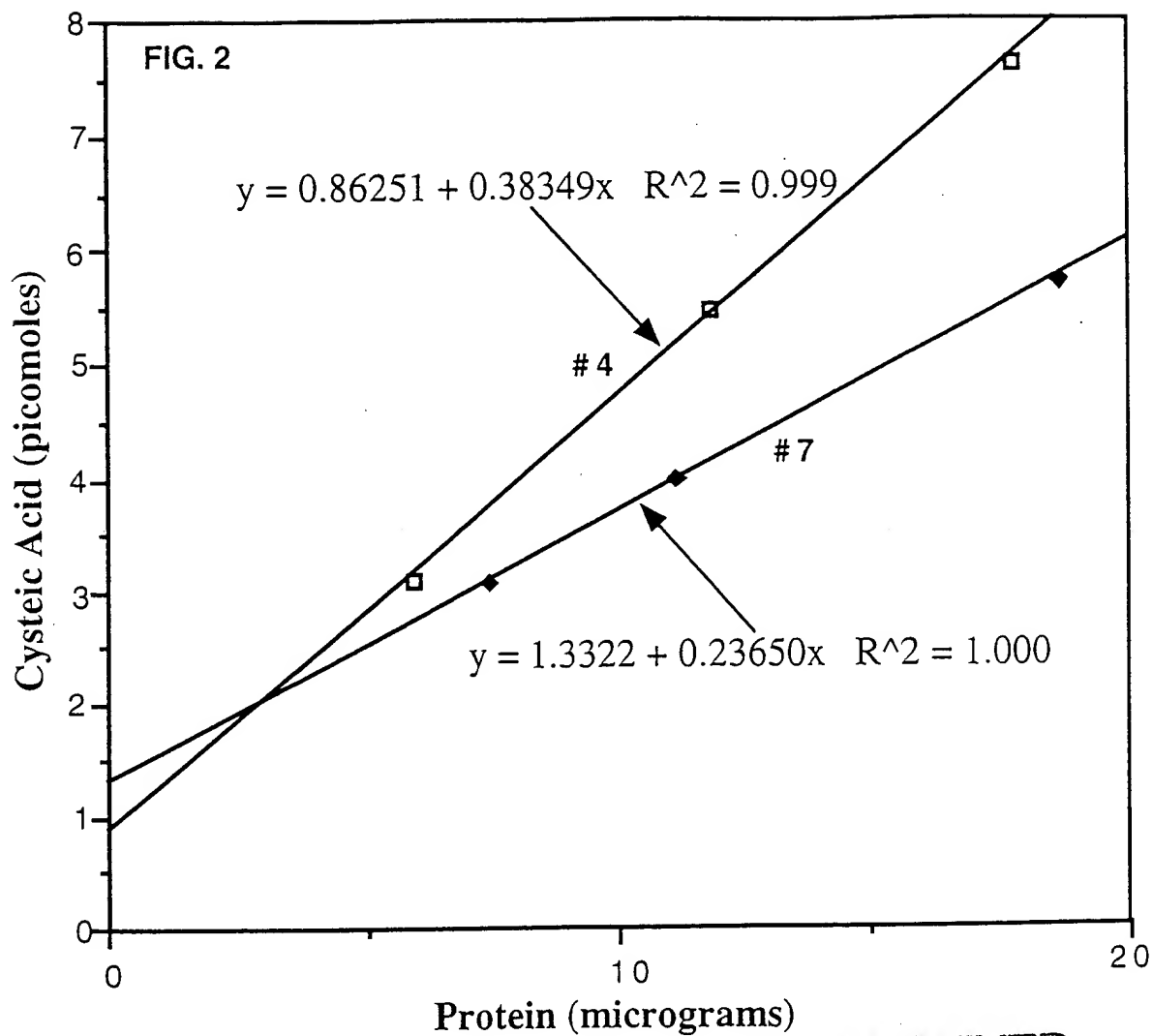
FIG. 1



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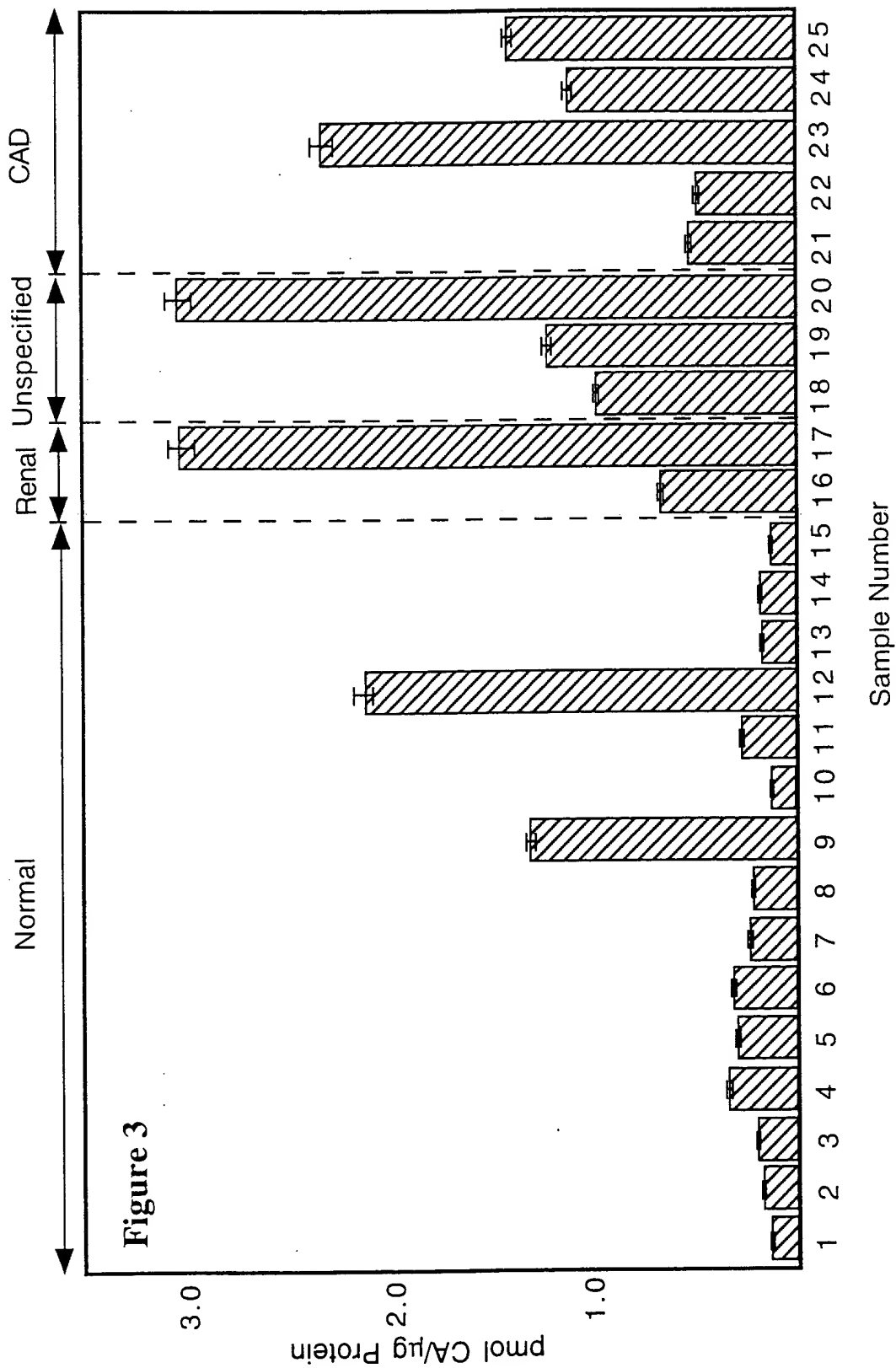


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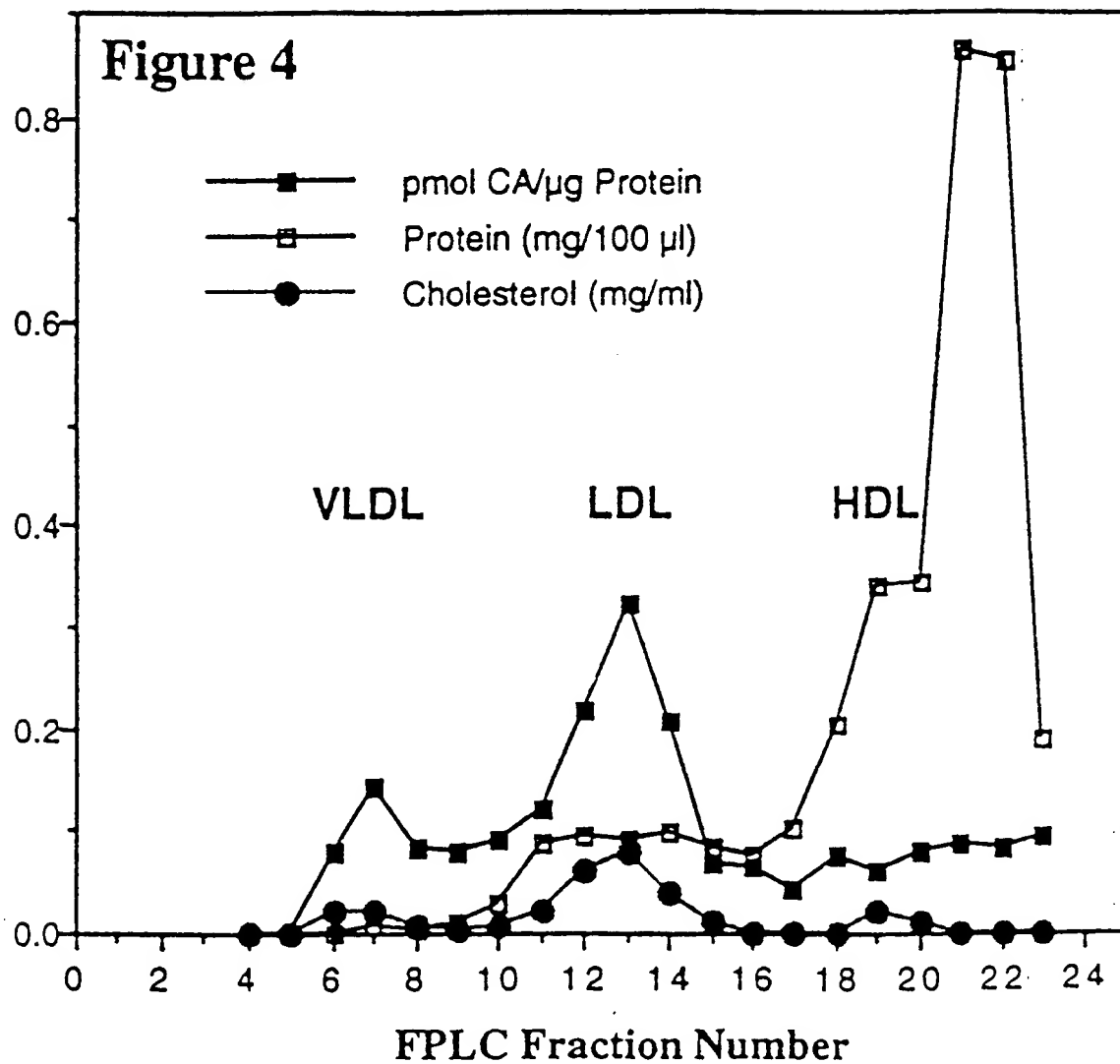


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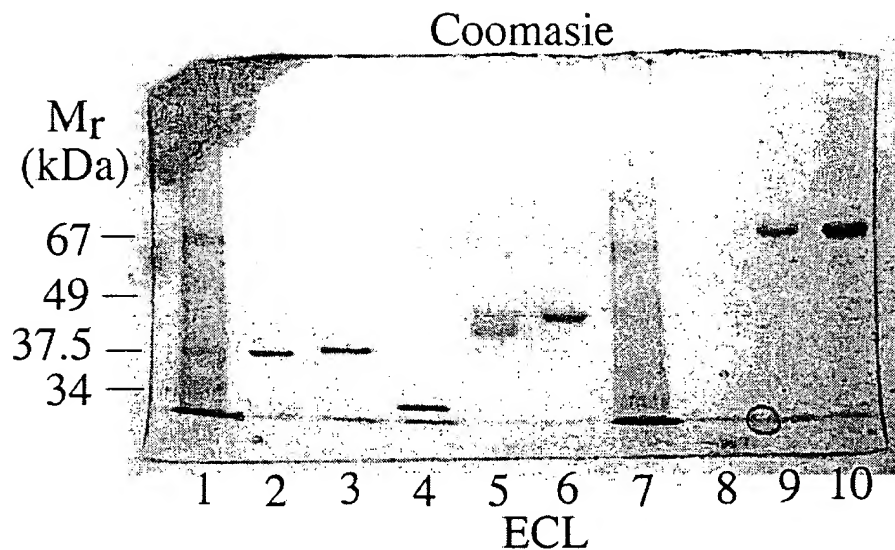


FIG. 5A

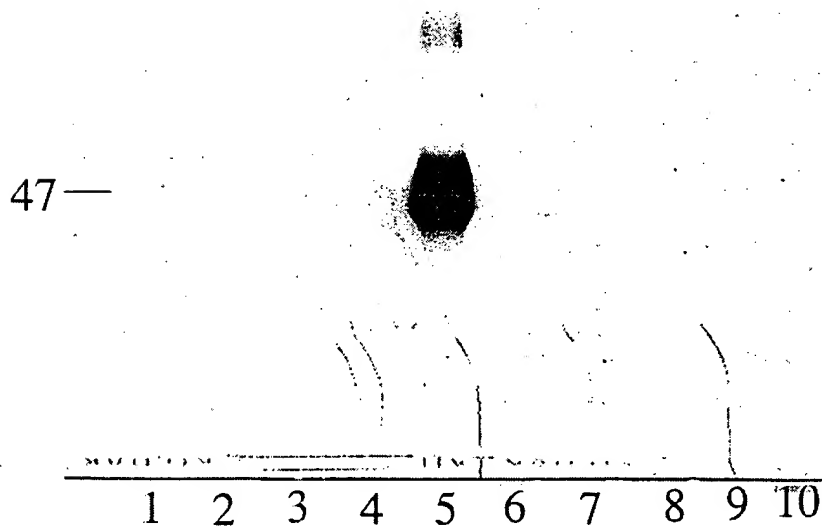


FIG. 5B

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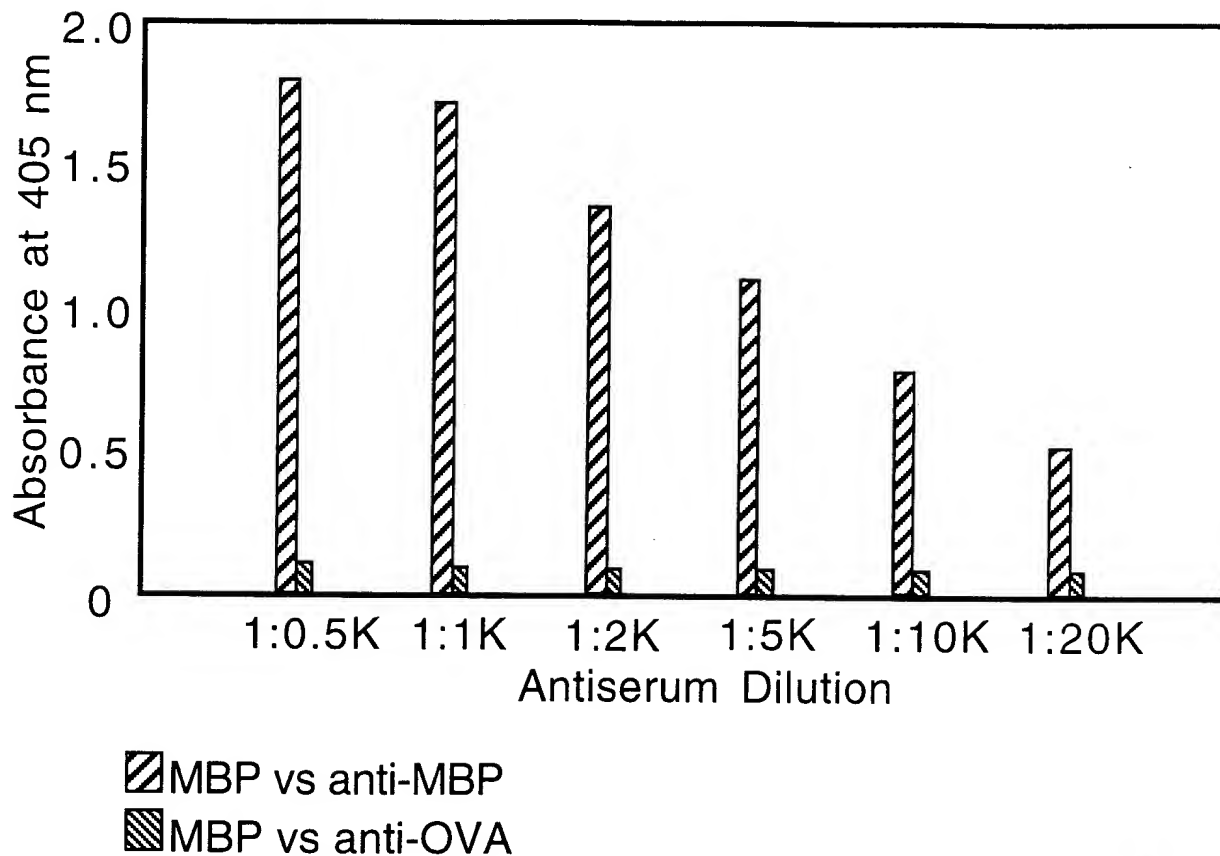


FIG. 6

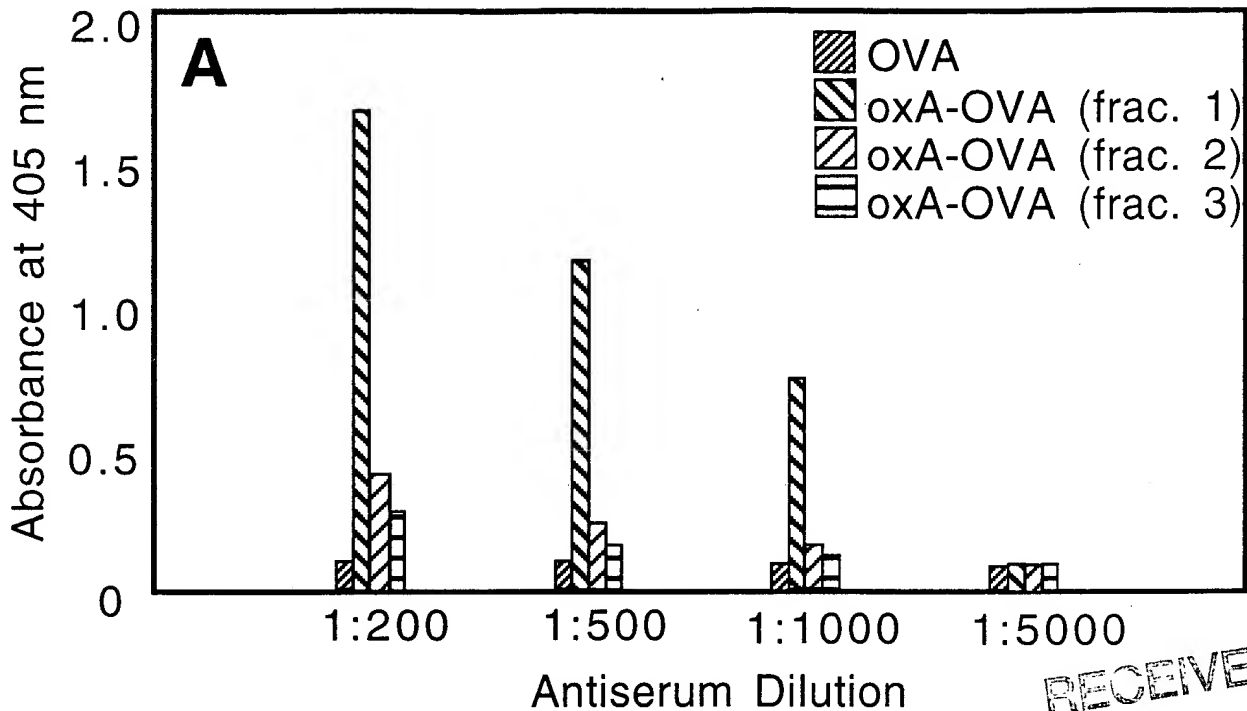
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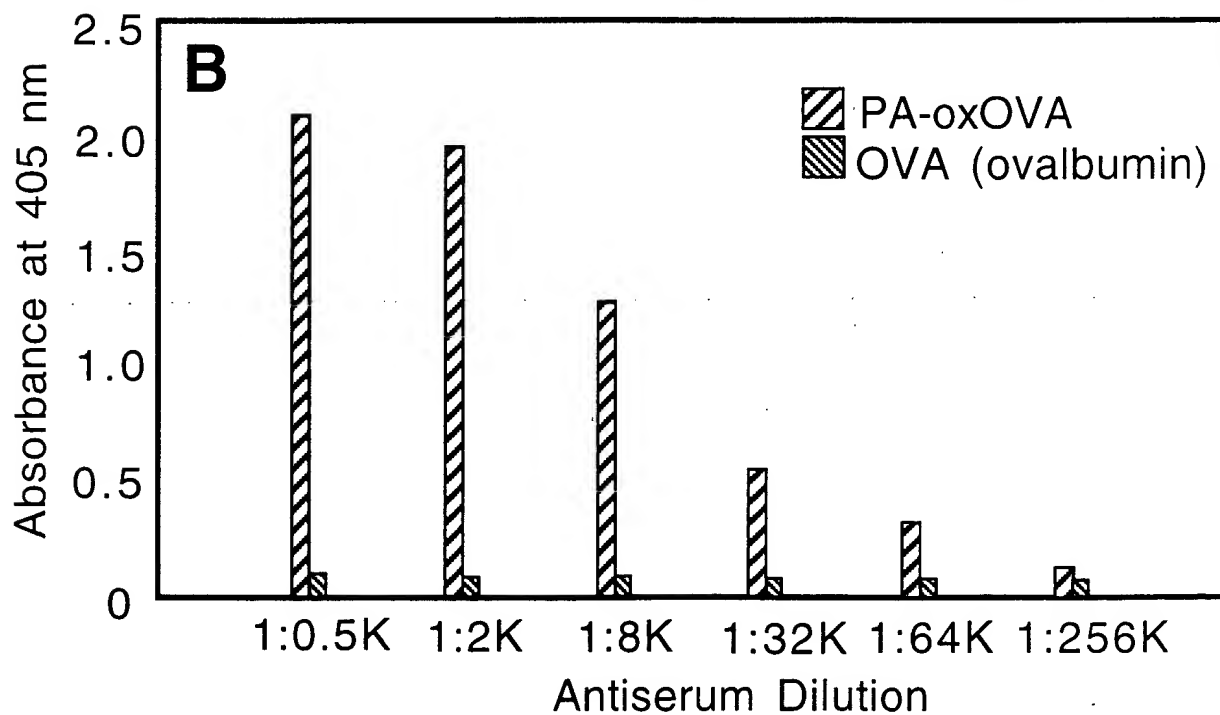
FIG. 7A



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FIG. 7B



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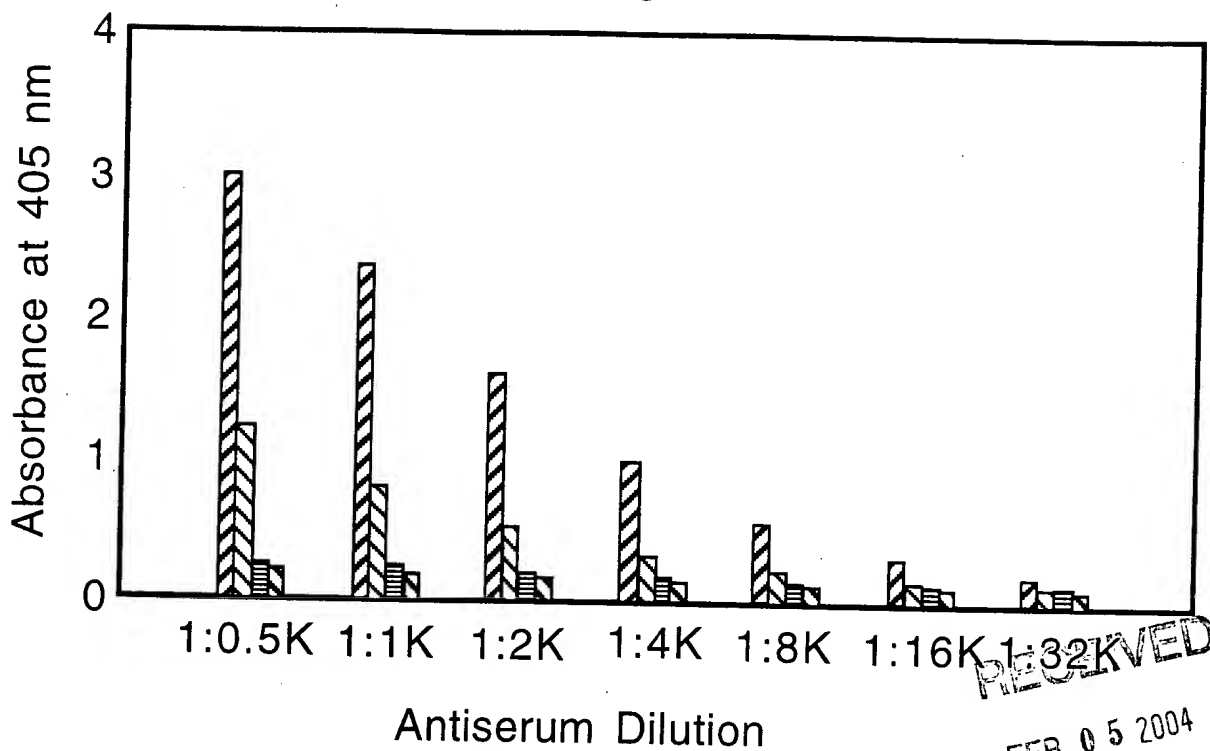
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FIG. 8



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- ▨ HOOH oxidized HSA containing 27.9 pmol cysteic acid/μg protein
 - ▩ HOOH oxidized HSA containing 11.7 pmol cysteic acid/μg protein
 - ▤ HOOH oxidized HSA containing 4.0 pmol cysteic acid/μg protein
 - Unoxidized HSA



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FIG. 9A

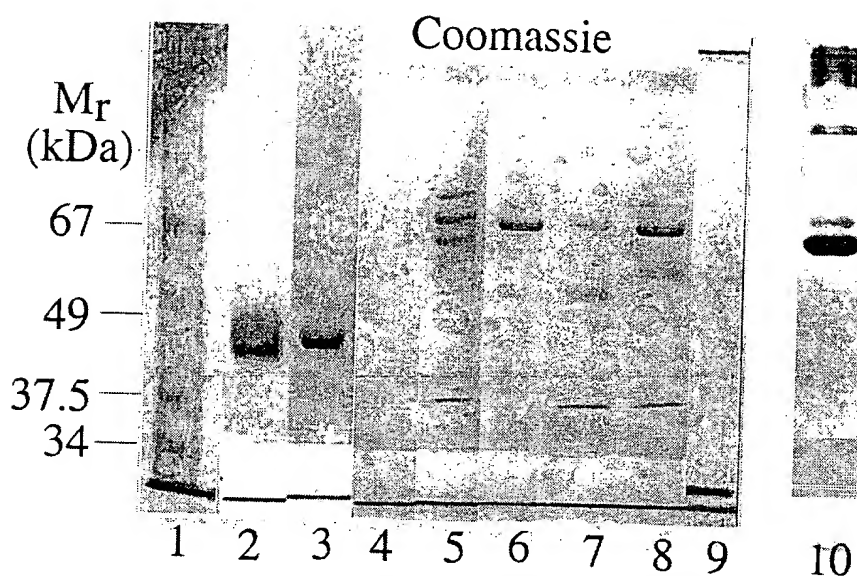
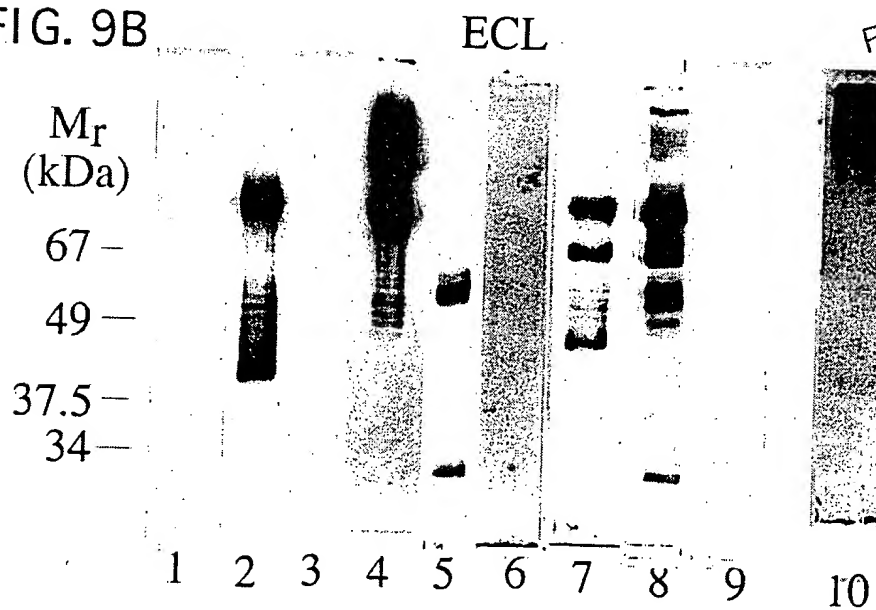


FIG. 9B



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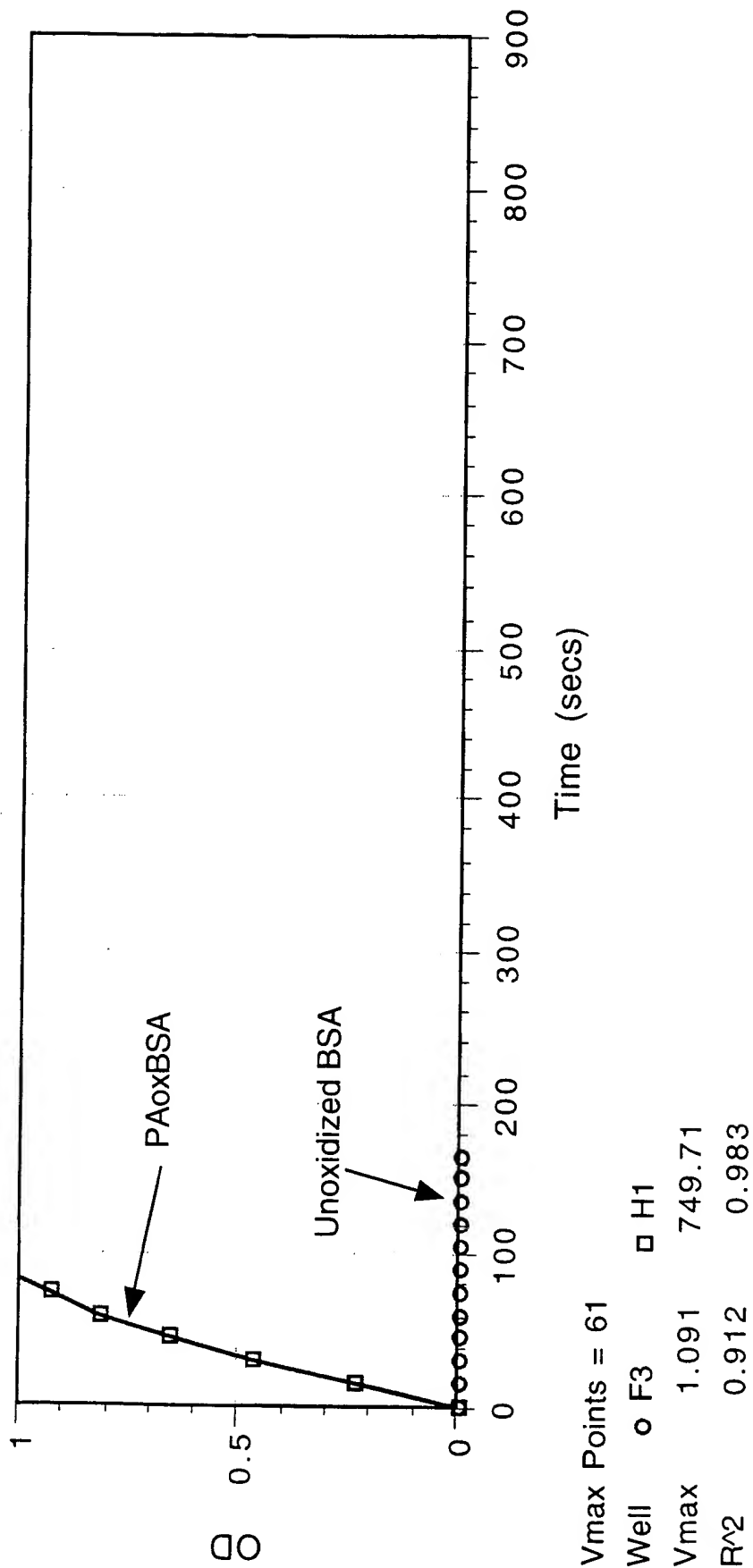
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Figure 10

Reactivity of mAB against PAoxBSA and unoxidized BSA



Wells coated with either 1 µg of PAoxBSA or 1 µg of unoxidized BSA.

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Figure 11
 Plate A - 96-well template

	1	2	3	4	5	6	7	8	9	10	11	12
A	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.1	1 µg K2.F1.3	PAox K2.F1.3	OVA + K2.F1.3	GSA K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6
B	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.1	1 K2.F1.3	µg PA K2.F1.3	ox OVA K2.F1.3	K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6
C	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.3	1 µg C K2.F1.3	M-OVA K2.F1.3	K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6
D	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.3	1 µg K2.F1.3	OVA K2.F1.3	K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6
E	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.1	1 µg K2.F1.3	OVA K2.F1.3	-oxCAP K2.F1.3	37 K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6
F	K2.F1.1	K2.F1.1	K2.F1.1	K2.F1.1	1 µg K2.F1.3	OVA-u K2.F1.3	noxCA K2.F1.3	P 37 K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6
G	1 K2.A12	µg PA K2.A12	ox OV K2.A12	A K2.A12	1 µg K2.A12	OVA- K2.A12	oxCAP K2.A12	37 K2.A12	K2.A12	K2.A12	K2.A12	K2.A12
H	K2F1.1	K2.F1.1	K2.F1.1	K2.F1.1	1 µg K2.F1.3	PAox K2.F1.3	OVA + K2.F1.3	CA K2.F1.3	K2.F1.6	K2.F1.6	K2.F1.6	K2.F1.6

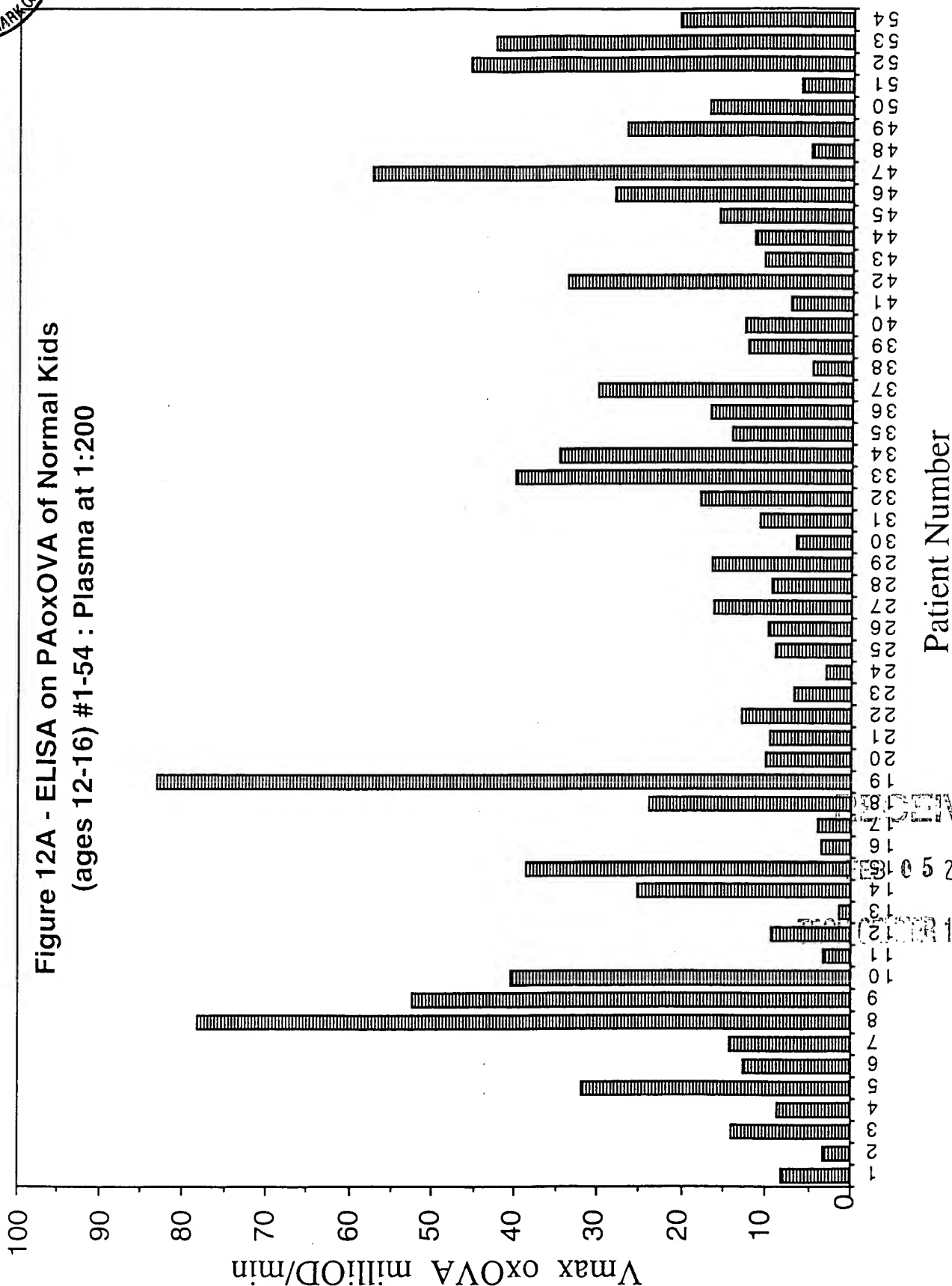
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Figure 12A - ELISA on PAoxOVA of Normal Kids
(ages 12-16) #1-54 : Plasma at 1:200



Patient Number

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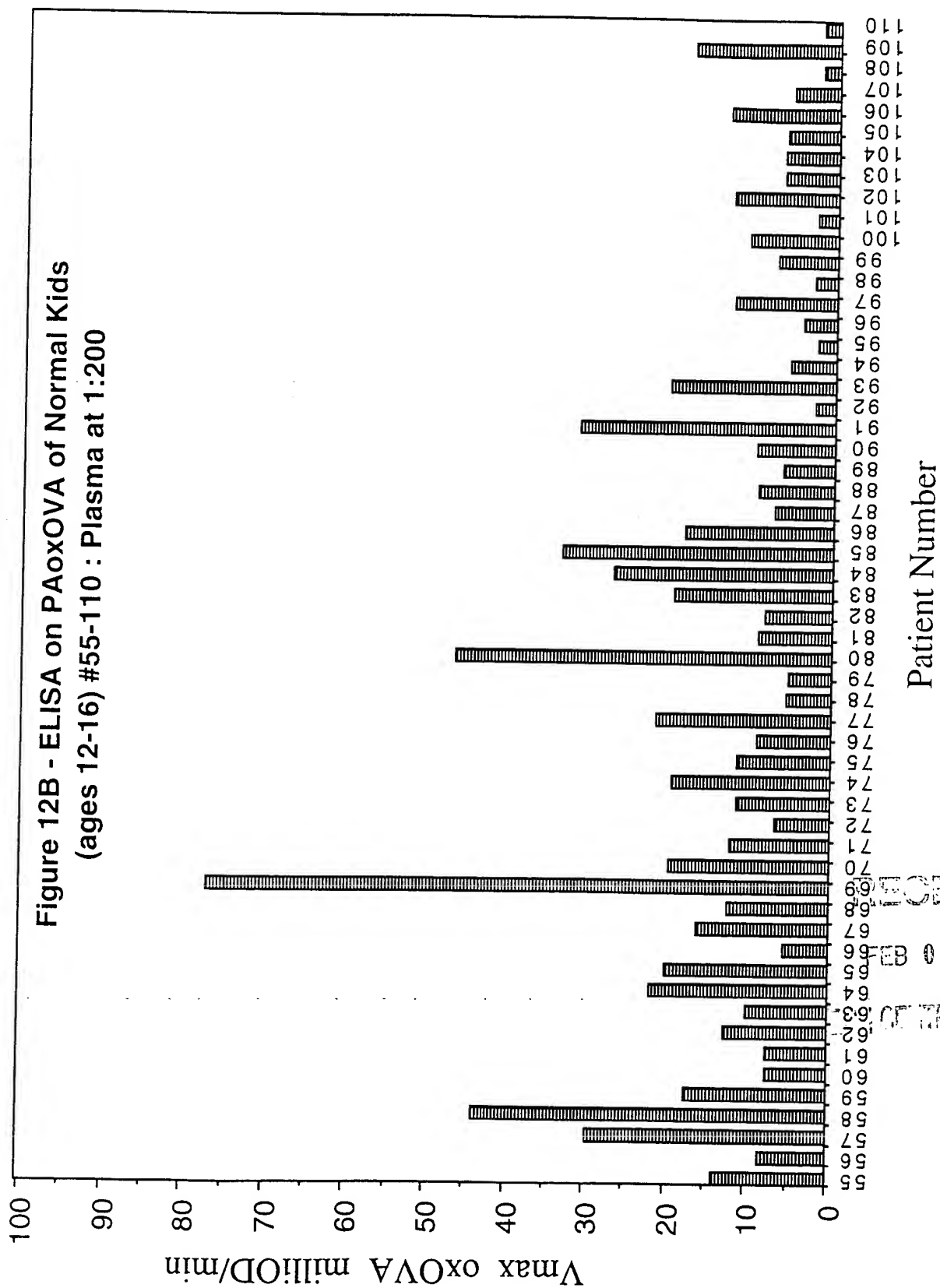


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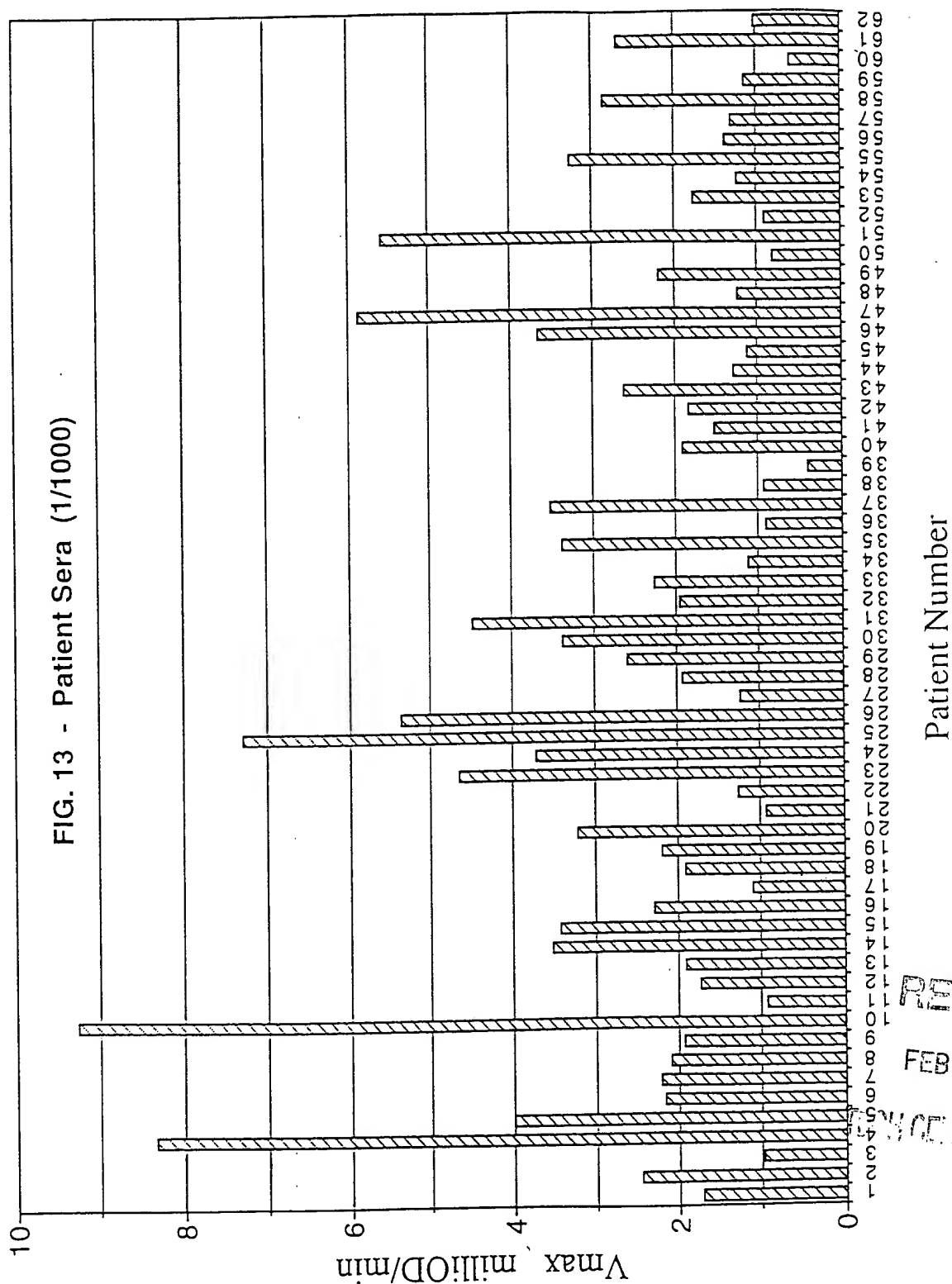
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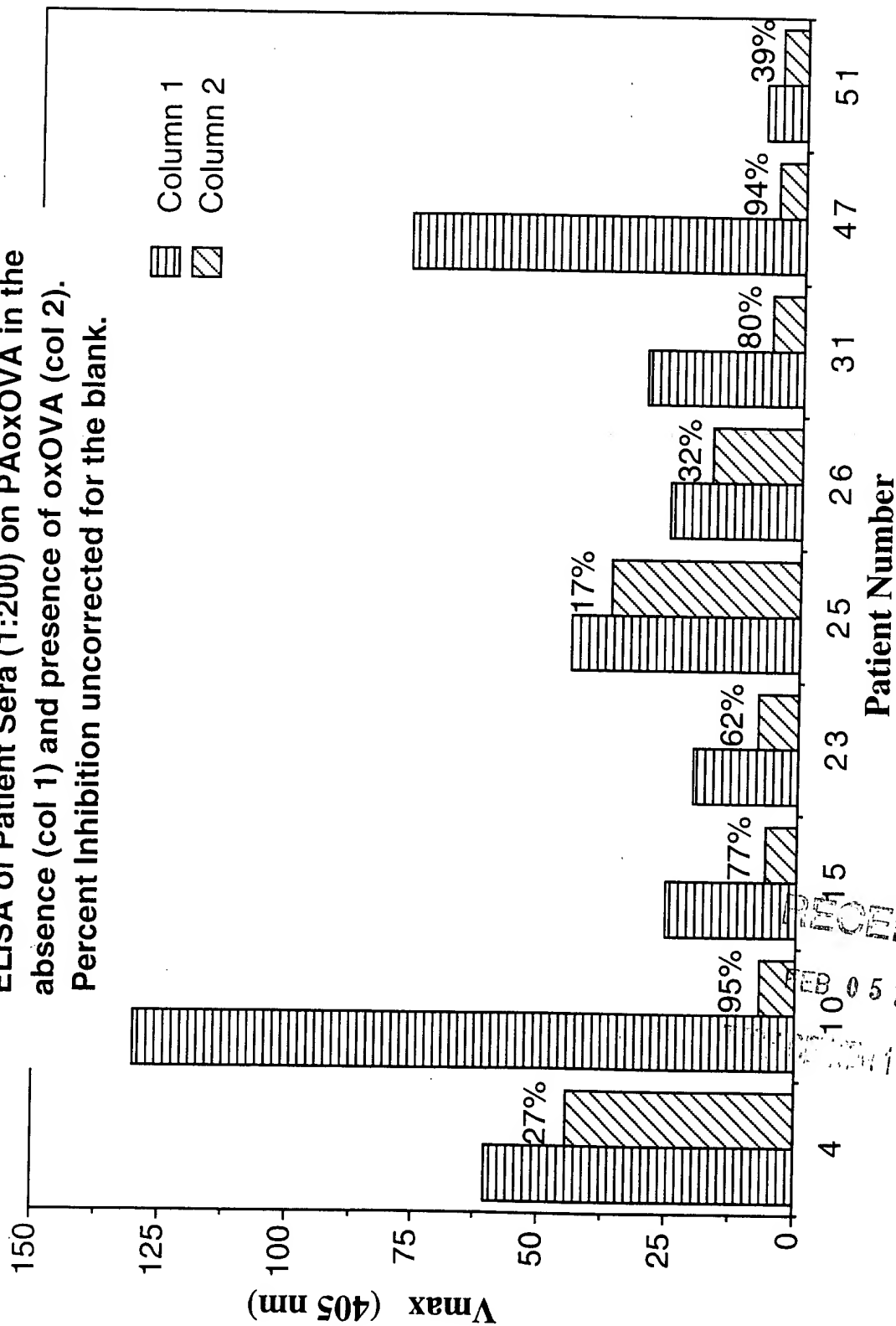
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FIG. 14

ELISA of Patient Sera (1:200) on PAoxOVA in the absence (col 1) and presence of oxOVA (col 2).
Percent Inhibition uncorrected for the blank.

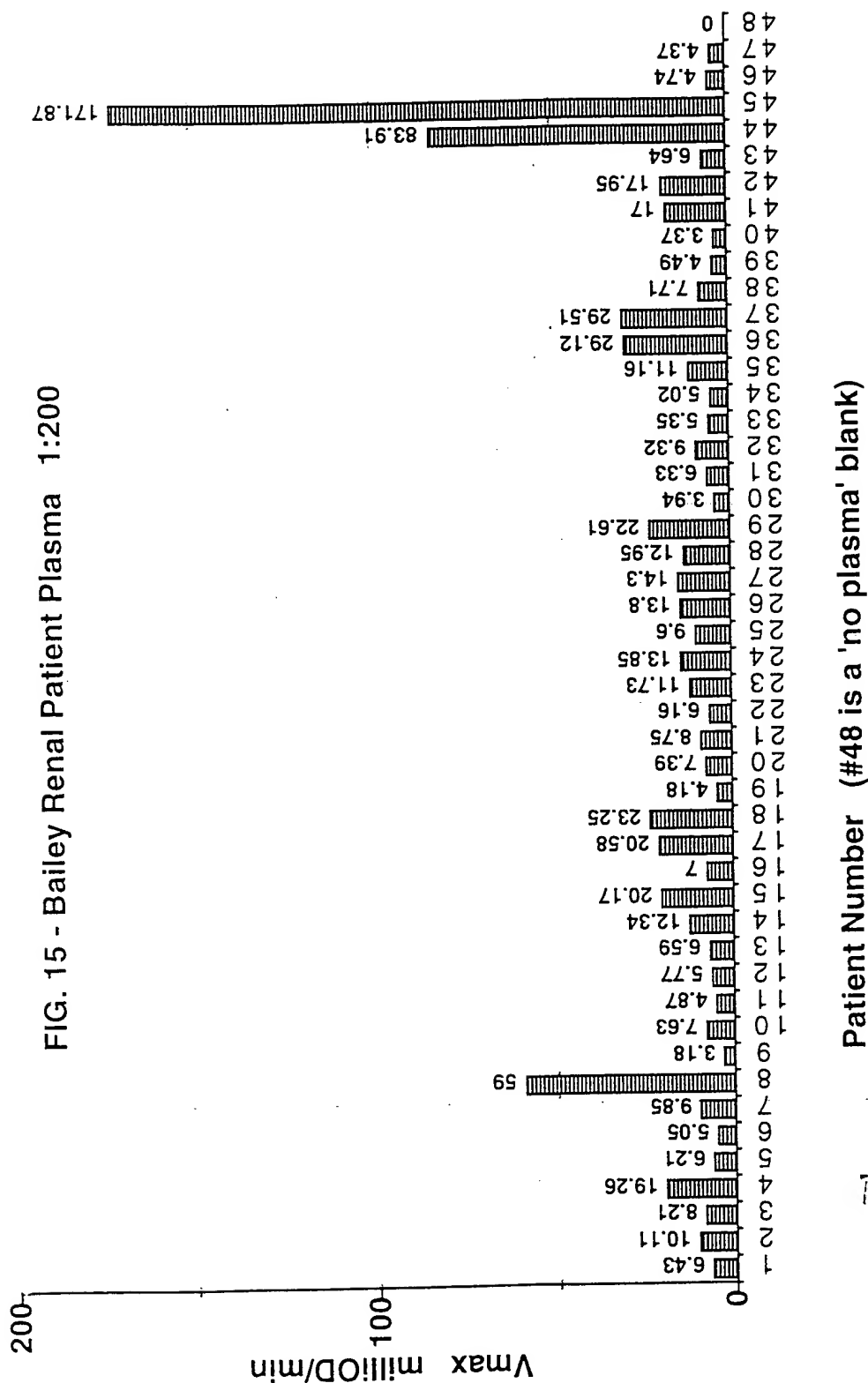


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Patient Number (#48 is a 'no plasma' blank)

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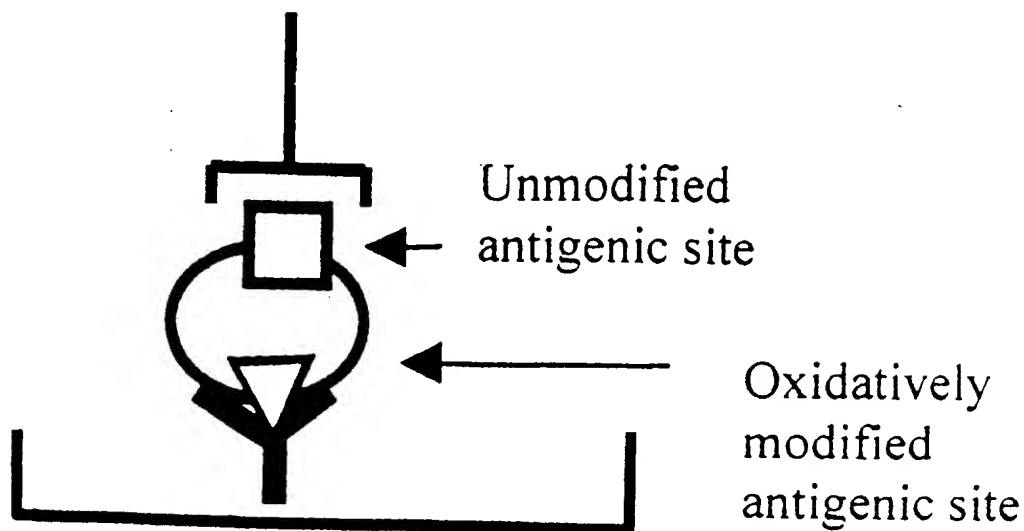


Figure 16A

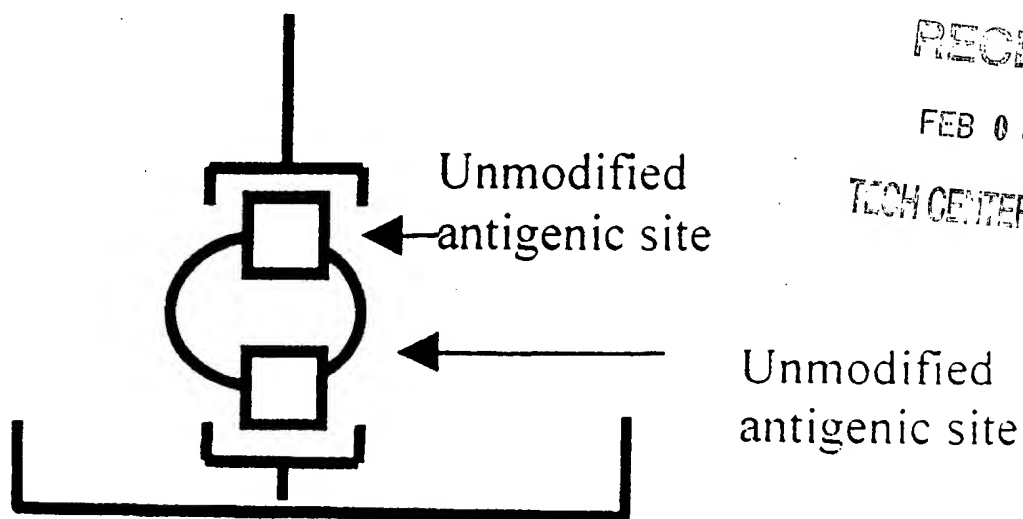


Figure 16B

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